# BRUHAT BANGALORE MAHANAGARA PALIKE
## YELAHANKA ZONE

Estimate Cost Rs. 1000000.00

8

Name of Work: Maintenance of Existing borewells and pipe lines in and arround areas of ward No- 01 of yelahanka Sub division.

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Repairs to Motor:Rewinding of Motor PRED SR (2012-13)P NO.54/ I,NO.10.1.2) | | | | | | | | |
| | a) -Do - above 3HP upto 5HP | No | 5 | | | | 5 | 2575.00 | 12875.00 |
| | Basic Rate | 2500.00 | | | | | | | |
| | Area Weightage @ 3 % | 75.00 | | | | | | | |
| | **Total** | **2575.00** | | | | | | | |
| 2 | Repairs to Motor:Rewinding of Motor PRED SR (2012-13)P NO.54/ I,NO.10.1.3) | | | | | | | | |
| | (Above 5HP upto 10HP add Rs.150/- for every 0.5 HP) | | | | | | | | |
| | a) -Do - above 5HP upto 10HP | No | 1 | | | | 1 | 2884.00 | 2884.00 |
| | Basic Rate | 2800.00 | | | | | | | |
| | Area Weightage @ 3 % | 84.00 | | | | | | | |
| | **Total** | **2884.00** | | | | | | | |
| | B) Replacement of Motor Parts: | | | | | | | | |
| 3 | Upto 5HP Stator (with one year Gurantee) PRED SR (2012-13)R NO.55/ I,NO.10.3.3) | No | 6 | | | | 6 | 5201.50 | 31209.00 |
| | Basic Rate | 5050.00 | | | | | | | |
| | Area Weightage @ 3 % | 151.50 | | | | | | | |
| | **Total** | **5201.50** | | | | | | | |
| 4 | Upper flange PRED SR (2012-13)P NO.55/ I,NO.10.3.7) | No | 6 | | | | 6 | 360.50 | 2163.00 |
| | Basic Rate | 350.00 | | | | | | | |
| | Area Weightage @ 3 % | 10.50 | | | | | | | |
| | **Total** | **360.50** | | | | | | | |
| 5 | Lower flange PRED SR (2012-13)P NO.55/ I,NO.10.3.8) | No | 6 | | | | 6 | 360.50 | 2163.00 |
| | Basic Rate | 350.00 | | | | | | | |
| | Area Weightage @ 3 % | 10.50 | | | | | | | |
| | **Total** | **360.50** | | | | | | | |
| 6 | Carbon Housing PRED SR (2012-13)P NO.56/ I,NO.10.3.12) | No | 6 | | | | 6 | 489.25 | 2936.00 |
| | Basic Rate | 475.00 | | | | | | | |
| | Area Weightage @ 3 % | 14.25 | | | | | | | |
| | **Total** | **489.25** | | | | | | | |
| 7 | Thrust bearing block assembly complete with Segment bearing pad PRED SR (2012-13)P NO.56/ I,NO.10.3.13) | No | 6 | | | | 6 | 1184.50 | 7107.00 |

| No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 1150.00 | | | | | | | |
| | Area Weightage @ 3 % | 34.50 | | | | | | | |
| | **Total** | **1184.50** | | | | | | | |
| 8 | c) Tip Carbon /Ferrodo pading PRED SR (2012-13)P NO.56/ I,NO.10.3.14) | No | 6 | | | | 6 | 154.50 | 927.00 |
| | Basic Rate | 150.00 | | | | | | | |
| | Area Weightage @ 3 % | 4.50 | | | | | | | |
| | **Total** | **154.50** | | | | | | | |
| 9 | Bearing (Gun metal )Centrifugal cast Aluminium Bronze, bearing bush PRED SR (2012-13)P NO.56/ I,NO.10.3.16) | No | 5 | | | | 5 | 412.00 | 2060.00 |
| | Basic Rate | 400.00 | | | | | | | |
| | Area Weightage @ 3 % | 12.00 | | | | | | | |
| | **Total** | **412.00** | | | | | | | |
| 10 | Motor Base with pin PRED SR (2012-13)P NO.56/ I,NO.10.3.18) | No | 5 | | | | 5 | 489.25 | 2446.00 |
| | Basic Rate | 475.00 | | | | | | | |
| | Area Weightage @ 3 % | 14.25 | | | | | | | |
| | **Total** | **489.25** | | | | | | | |
| 11 | Re-erection charges of pumping machineries including overhauling and painting PRED SR (2012-13)P NO.56/ I,NO.10.3.20) | No | 5 | | | | 5 | 978.50 | 4893.00 |
| | Basic Rate | 950.00 | | | | | | | |
| | Area Weightage @ 3 % | 28.50 | | | | | | | |
| | **Total** | **978.50** | | | | | | | |
| 12 | Labour Charge (overhauling) PRED SR (2012-13)P NO.56/ I,NO.10.3.22) | Job | 5 | | | | 5 | 566.50 | 2833.00 |
| | Basic Rate | 550.00 | | | | | | | |
| | Area Weightage @ 3 % | 16.50 | | | | | | | |
| | **Total** | **566.50** | | | | | | | |
| | **Replacement of pump parts:** | | | | | | | | |
| 13 | Pump bowls PRED SR (2012-13)P NO.56/ I,NO.10.2.) | No | 6 | | | | 6 | 721.00 | 4326.00 |
| | Basic Rate | 700.00 | | | | | | | |
| | Area Weightage @ 3 % | 21.00 | | | | | | | |
| | **Total** | **721.00** | | | | | | | |
| 14 | Intermediate piece (I.P) with IP leaded bronze bush PRED SR (2012-13)P NO.56/ I,NO.10.2.2) | No | 6 | | | | 6 | 463.50 | 2781.00 |
| | Basic Rate | 450.00 | | | | | | | |
| | Area Weightage @ 3 % | 13.50 | | | | | | | |
| | **Total** | **463.50** | | | | | | | |
| 15 | Oil seal PRED SR (2012-13)P NO.56/ I,NO.10.2.3) | No | 6 | | | | 6 | 128.75 | 773.00 |

| No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 125.00 | | | | | | | |
| | Area Weightage @ 3 % | 3.75 | | | | | | | |
| | **Total** | **128.75** | | | | | | | |
| | | | | | | | | | |
| 16 | Oil seal steel bush PRED SR (2012-13)P NO.56/ I,NO.10.2.4) | No | 6 | | | | 6 | 154.50 | 927.00 |
| | Basic Rate | 150.00 | | | | | | | |
| | Area Weightage @ 3 % | 4.50 | | | | | | | |
| | **Total** | **154.50** | | | | | | | |
| 17 | Guide vane PRED SR (2012-13)P NO.56/ I,NO.10.2.5) | No | 6 | | | | 6 | 180.25 | 1082.00 |
| | Basic Rate | 175.00 | | | | | | | |
| | Area Weightage @ 3 % | 5.25 | | | | | | | |
| | **Total** | **180.25** | | | | | | | |
| 18 | Impeller (shell moulded with aluminium and Bonze) PRED SR (2012-13)P NO.56/ I,NO.10.2.6) | No | 6 | | | | 6 | 437.75 | 2627.00 |
| | Basic Rate | 425.00 | | | | | | | |
| | Area Weightage @ 3 % | 12.75 | | | | | | | |
| | **Total** | **437.75** | | | | | | | |
| 19 | Discharge outlet (D.O) Bearing D.O Steel Bush PRED SR (2012-13)P NO.56/ I,NO.10.2.7) | No | 6 | | | | 6 | 458.35 | 2750.00 |
| | Basic Rate | 445.00 | | | | | | | |
| | Area Weightage @ 3 % | 13.35 | | | | | | | |
| | **Total** | **458.35** | | | | | | | |
| 20 | D.O Bearing PRED SR (2012-13)P NO.56/ I,NO.10.2.8) | No | 6 | | | | 6 | 293.55 | 1761.00 |
| | Basic Rate | 285.00 | | | | | | | |
| | Area Weightage @ 3 % | 8.55 | | | | | | | |
| | **Total** | **293.55** | | | | | | | |
| 21 | Steel bush (D.O) steel bush ) PRED SR (2012-13)P NO.56/ I,NO.10.2.9) | No | 6 | | | | 6 | 154.50 | 927.00 |
| | Basic Rate | 150.00 | | | | | | | |
| | Area Weightage @ 3 % | 4.50 | | | | | | | |
| | **Total** | **154.50** | | | | | | | |
| 22 | Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) PRED SR (2012-13)P NO.56/ I,NO.10.2.11) | No | 6 | | | | 6 | 978.50 | 5871.00 |
| | Basic Rate | 950.00 | | | | | | | |
| | Area Weightage @ 3 % | 28.50 | | | | | | | |

| No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **Total** | **978.50** | | | | | | | |
| 23 | Pump key (Stainless steel ) PRED SR (2012-13)P NO.56/ I,NO 10.2.12) | No | 6 | | | | 6 | 128.75 | 773.00 |
| | Basic Rate | 125.00 | | | | | | | |
| | Area Weightage @ 3 % | 3.75 | | | | | | | |
| | **Total** | **128.75** | | | | | | | |
| 24 | Pump coupling (stainless steel) PRED SR (2012-13)P NO.56/ I,NO 10.2.13) | No | 6 | | | | 6 | 257.50 | 1545.00 |
| | Basic Rate | 250.00 | | | | | | | |
| | Area Weightage @ 3 % | 7.50 | | | | | | | |
| | **Total** | **257.50** | | | | | | | |
| 25 | Cabble guard PRED SR (2012-13)P NO.56/ I,NO 10.2.15) | No | 6 | | | | 6 | 154.50 | 927.00 |
| | Basic Rate | 150.00 | | | | | | | |
| | Area Weightage @ 3 % | 4.50 | | | | | | | |
| | **Total** | **154.50** | | | | | | | |
| 26 | Strainer PRED SR (2012-13)P NO.56/ I,NO 10.2.16) | No | 6 | | | | 6 | 154.50 | 927.00 |
| | Basic Rate | 150.00 | | | | | | | |
| | Area Weightage @ 3 % | 4.50 | | | | | | | |
| | **Total** | **154.50** | | | | | | | |
| 27 | Brass Filter PRED SR (2012-13)P NO.56/ I,NO 10.2.17) | No | 6 | | | | 6 | 257.50 | 1545.00 |
| | Basic Rate | 250.00 | | | | | | | |
| | Area Weightage @ 3 % | 7.50 | | | | | | | |
| | **Total** | **257.50** | | | | | | | |
| 28 | KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3) | Cum | | | | | | | |
| | for PVC pipe | | 1 | 1060.00 | 0.45 | 0.90 | 429.30 | | |
| | | | | | | | 429.30 | 200.34 | 86005.96 |
| | Basic Rate | 189.00 | | | | | | | |
| | Area Weightage @ 6% | 11.34 | | | | | | | |

| No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Total | 200.34 | | | | | | | |
| 29 | Providing and fixing to wall, ceiling and floor, high density polyethylene pipes 6.00 kgs/sq.cm working pressure 75mm outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost all material, labour charges, HOM of equipments and testing complete as per specifications.(P.N.93) | Rmtr | | | | | | | |
| | 75 mm dia (It no 13.703) | | 1 | 500.00 | | | 500.00 | 320.12 | 160060.00 |
| | Basic Rate | 302.00 | | | | | | | |
| | Area Weightage @ 6% | 18.12 | | | | | | | |
| | Total | 320.12 | | | | | | | |
| | 63mm dia (It no 13.70.2) | | 1 | 560.00 | | | 560.00 | 278.78 | 156116.80 |
| | Basic Rate | 263.00 | | | | | | | |
| | Area Weightage @ 6% | 15.78 | | | | | | | |
| | Total | 278.78 | | | | | | | |
| 30 | Refilling available earth around pipelines, cables in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering lead upto 50m and lift upto 1.5m including cost of labour complete as per specification (P. No.6 I.No.2.11) | cum | | | | | | | |
| | | | Qty Vide It.No.1 | | | | 429.30 | 80.56 | 34584.41 |
| | Basic Rate | 76.00 | | | | | | | |
| | 6% area weightage | 4.56 | | | | | | | |
| | **Total** | **80.56** | | | | | | | |
| | | | | | | | | | |
| 31 | Supply and delivery of submersible pump sets suitable for borewell of 165 mm dia with specified dyty conditions as detailed below and satisfying performance characteristics for pump and moter specified in BIS with ISI mark with a minimum efficiency of 42% pump shall confirm to IS 8034/2002 and motor conforming to IS 9283/1995 with ISI certification with latest amendments for the following 15.0HP/11KW ATALANTA/SUGUNA/CRI/KIRLOSKAR /OTHER EQUIVALENT PUMPS (page no.XXXXII / Sl No 33 Code No.2)2016-17 | set | | | | | | | |

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | | | | 2.00 | 70600.00 | 141200.00 |
| | Basic Rate | 70600.00 | | | | | | | |
| 32 | Providing, GI pipe50mm dia B class (Page No XVII Sl.no.509, code no.0154) | Rmtr | | | | | | | |
| | | | 1 | 210.00 | | | 210.00 | | |
| | | | | | | | 210.00 | 321.00 | 67410.00 |
| | Basic Rate | 321.00 | | | | | | | |
| 33 | Providing & fixing R-socket GI pipe fitting (Page No XXXIX) GI FITTINGS TABLE) | No | | | | | | | |
| | | | 1 | 40.00 | | | 40.00 | 92.80 | 3712.00 |
| | Basic Rate | 92.80 | | | | | | | |
| 34 | Supplying and drawing 3 crore flat PVC submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 to IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts )P No.49/ It.No.29c(1) 2.5sqm of 36 strands 0.3mm dia group-A KPWD Electrical SR 2014-15 | Mtr | | | | | | | |
| | | | 1 | 480.00 | | | 480.00 | 188.70 | 90576.00 |
| | Basic Rate | 188.70 | | | | | | | |
| 35 | fabrication supplying and mounting MS box of 16 SWG Suitable for floor/wall mounting fully weather proof with provision for better heat dissipation provided with hinged front cover equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600sqcm @ Rs0.33 SWG (P-49 It 6.40.2) (KPWD Electrical Sr 2014-15) | Sqm Cm | | | | | | | |
| | | | 5 | 1100.00 | 20.00 | | 110000.00 | | |
| | Basic Rate | 0.33 | | | | | **110000.00** | 0.34 | 37389.00 |
| | 3% area weightage | 0.01 | | | | | | | |
| | **Total** | **0.34** | | | | | | | |
| 36 | Gun metal non-return valve 50mm nominal bore horizontal pipe (Page No XXII Sl.no.659, code | No's | | | | | | | |
| | | | 5 | 3.00 | | | 15.00 | 1150.00 | 17250.00 |
| | Basic Rate | 1150.00 | | | | | | | |

| No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 37 | Gate valve 50mm nominal bore gun metal (Page.No XXII Sl.no.673: code no.0164) | No's | | | | | | | |
| | | | 5 | 3.00 | | | 15.00 | 1650.00 | 24750.00 |
| | Basic Rate | 1650.00 | | | | | | | |
| 38 | Providing & fixing of Union 50mm for GI pipe fitting (Page.No XXXIX) GI FITTINGS TABLE) | No's | | | | | | | |
| | | | 5 | 3.00 | | | 15.00 | 223.70 | 3355.50 |
| | Basic Rate | 223.70 | | | | | | | |
| 39 | Providing and fixing of 50mm GI Nipple to motor (Page.No XXXIX) GI FITTINGS TABLE) | No's | | | | | | | |
| | | | 5 | 3.00 | | | 15.00 | 104.30 | 1564.50 |
| | Basic Rate | 104.30 | | | | | | | |
| 40 | Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14) | Per length | | | | | | | |
| | | | 5 | 50.00 | | | 250.00 | 90.64 | 22660.00 |
| | Basic Rate | 88.00 | Nos | | | | | | |
| | 3% area weightage | 2.64 | Nos | | | | | | |
| | **Total** | **90.64** | **Nos** | | | | | | |
| 41 | Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14) | No's | | | | | | | |
| | | | 5 | 1.00 | | | 5.00 | 906.40 | 4532.00 |
| | Basic Rate | 880.00 | | | | | | | |
| | 3% area weightage | 26.40 | | | | | | | |
| | **Total** | **906.40** | | | | | | | |
| 42 | Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable ( confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14) | Mtr | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 5 | 35.00 | | | 175.00 | 169.95 | 29741.25 |
| | Basic Rate | 165.00 | | | | | | | |
| | 3% area weightage | 4.95 | | | | | | | |
| | **Total** | **169.95** | | | | | | | |
| 43 | Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14) in hard soil | Mtr | | | | | | | |
| | | | 5 | 30.00 | | | 150.00 | 56.65 | 8497.50 |
| | Basic Rate | 55.00 | | | | | | | |
| | 3% area weightage | 1.65 | | | | | | | |
| | **Total** | **56.65** | | | | | | | |
| 44 | Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14) | Mtr | | | | | | | |
| | | | 5 | 3.00 | | | 15.00 | 294.58 | 4418.70 |
| | Basic Rate | 286.00 | | | | | | | |
| | 3% area weightage | 8.58 | | | | | | | |
| | **Total** | **294.58** | | | | | | | |
| 45 | Miscelaneous and rounding off. | | | | | | | | 2138.00 |
| | | | | | | | | TOTAL | 1000000.00 |
| (Rupees Ten lakhs Only) | | | | | | | | | |

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 The Estimate is prepared as per the PRED SR 2012-13 and PW,P & IWTD SR 2013-18 and BWSSB Electrical SR 2013-14

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No.01

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

Administrative Sanction for Rs. 10.00 lakhs
Ten lakhs only
is accorded under head P-1802-2017-18
Registered as CE No.
Subject to conditions contained in
No CE/YNK/DA/30/17-18 5.12.17

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 10.00 lacs
Rupees Ten lakhs only
Under P-1802-2017-18
Registered as CE ( ) No.
Subject to conditions
enclosed memo
EE/YNK/TS/29/17-18
Dated 5.12.17

10.00 lacs

Executive Engineer